

## ABSTRACT:

A method is proposed for developing a family of complex systems having a common software architecture platform. The method comprises

- set up of a functional requirements specification (FRS) which includes use cases that describes interaction of users with said complex systems in terms of abstract concept and
- 5 – set up of a requirements object model which explains the abstract concepts in terms of a structured vocabulary

The use cases are developed hand-in-hand with the requirements object model.

The FRS specifies the interaction of the complex systems with their users.

10 Notably, the FRS specifies the activities which are performed in the interaction of the complex systems with their users, i.e. ‘what’ the complex systems do. This is preferably done in terms of the use cases which are usually written in a natural language such as English. The requirements object model specifies the concepts to which the activities specified in the FRS relate. The FRS may be divided into several chapters. Preferably, the requirements object model is written in an object modeling language such as UML.

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No figure